

User manual for the HUMA Hi-300

Thank you for having chosen the HUMA HI-300.

The HUMA-i Smart (i-300) is equipped with an extremely sensitive sensor for Co² (carbon dioxide) and VOCs (volatile organic compounds) allowing accurate measurements. In addition, dust and particulate matter (PM1.0, PM2.5 and Pm10) temperature and humidity measured. All this in real time.

Via the Wi-Fi network connection you can monitor and manage the air quality anytime and anywhere via a mobile app. Push notifications notify you in real time when air quality exceeds certain standards

Anytime, anywhere with HUMA-i 300

BEFORE YOU START

This manual provides an overview of the use and function keys of the Huma i-300. In order to use the device correctly, however, the software of the App must be installed on your mobile phone or Android tablet in order to be able to use one or more devices remotely. So install the HUMA-in-App from Google Play or Apple App Store on your smartphone, i-Phone or tablet. Download the PDF manual in English from the site of Pinwoodelectronics.com



A short and small sized user manual is supplied in the original package. Please use this A4 sized manual for a complete list of all the possibilities



Un petit manuel d'utilisation est fourni dans l'emballage d'origine. Veuillez utiliser ce manuel au format A4 pour avoir accès à toutes les possibilités



Products packed



Huma-i smart (HI-300) 1 unit



1 USB cable



1 Power Supply Adaptor



1 small English user manual

The product configuration image in this manual is for illustrative purposes only and may look different from the actual product

Main Functions



- | | | |
|-------------------------------------|-----------------------------|------------------|
| 1. USB C connector | 4. Mode selection knob | 8. LED status |
| 2. Indoor AQI display | 5. Display mode | 9. Brightness |
| 3. Temperature / Humidity indicator | 6. Battery status indicator | 10. Data storage |
| | 7. Wi-Fi status indicator | |

1 USB C connector

- 1) When the USB-C cable is connected to the adapter, the product will start automatically
- 2) When the device is connected to power, the device starts to work
- 3) **Batterij Mode** - disconnect the USB-C cable to go into battery mode
 - ① When the battery mode is activated, the product will turn off automatically after 30 minutes to save battery life
 - ② press the mode selector button for more than 5 seconds to turn off the power after 2 seconds, a beep will sound and the power will turn off after 5 seconds.
 - ③ The measured value flashes 1 minute before the power turns itself off. If the button is pressed at that moment, the use of the device is extended by 30 minutes. If you activate the mobile app, it can still be used.
 - ④ In battery mode, it is possible to use it for 60 minutes, depending on the environment. Connect the power before the battery runs out. If the power is turned off in battery mode, the product will automatically turn on again when the USB cable is connected
 - ⑤ Huma-i smart is designed to be used with the power cable connected to the 220V mains. Battery mode is supported for ease of use, so use battery mode only when necessary.

2. Displaying Indoor AQI

- 1) it shows current AQI levels and steps for inside
- 2) The color changes according to the AQI step
- 3) If the "bad" or "unhealthy" in the AQI step persists for more than 5 minutes, the AQI alarm will sound for 1 minute. The alarm setting of the mobile app allows you to turn the AQI alarm on or off. (The initial setting is "OFF")

1 Good - BLUE 2 Moderate - GREEN 3 Poor - YELLOW 4 Unhealthy - RED

Huma-i smart AQI table

AQI Status	Good	Moderate	Poor	Unhealthy
AQI-digits	0 - 50	51 - 100	101 - 200	201 - 500
Display color	Blue	Green	Yellow	Red

The Huma-i Air Quality Index (AQI) converts individual measurements of VOC, CO₂, PM10, PM2.5 and PM1.0 and displays them as an integrated air quality monitor

Measured object and unit	Good	Moderate	Poor	Unhealthy
PM 10 (µg/m ³)	0 - 15	16 - 25	26 - 35	36+
PM 2.5 (µg/m ³)	0 - 15	16 - 25	26 - 35	36+
PM 1.0 (µg/m ³)	0 - 30	31 - 50	51 - 70	71+
VOC (ppm)	0.000 - 0.220	0.221 - 0.660	0.661 - 2200	2001 - 9.999
CO ₂ (ppm)	400 - 700	701 - 1000	1001 - 2000	2001 - 5000

3. Temperature / Humidity indicator

- 1) It displays the temperature and humidity of the room
- 2) The temperature and humidity screen can be inserted in the app (Initially this choice is "OFF")
- 3) The choice between Celcius (C°) and Farenheit (F°) can be entered in the app (Initially this choice is "Celcius")
- 4) Since the temperature and humidity sensors are built into the device, there can be a deviation of 5 to 10%

4. Mode selection knob

- 1) the button is used to change the screen display mode
- 2) When the AQI alarm is audible, the button can be used to silence the alarm
- 3) In battery mode, press the button for 5 seconds to turn off the device

5. Display mode

Huma-i smart shows different air quality values. Press the mode select button to switch modes. > CO₂ -> PM2.5 -> PM10 are changed in order Five modes (clock -> VOC -)

- ① Clock
When you register the product through the mobile app, the time will be set automatically (AM/PM)
- ② VOC
A waiting time of 15 to 60 seconds is required to display the VOC values. During the waiting time, the display shows " - - - "ppm
- ③ CO₂
A waiting time of less than 180 seconds is required to display the CO₂ reading. During the waiting time, the display shows " - - - " ppm
- ④ PM2.5
the measured PM2.5 value is displayed as soon as the device is started
- ⑤ PM1.0
the measured PM1.0 value is displayed as soon as the device is started
- ⑥ AUTO Mode
This can only be set by the mobile app
The display screen automatically changes the order every 5 seconds in Clock --> VOC --> CO₂ --> PM2.5 --> PM1.0. In auto mode, the status LED lights up.
- ⑦ OFF mode (Full screen in OFF mode) It can only be set by the mobile app.
In OFF mode, the status LED flashes

6. Battery Status indicator

- 1) When the device is connected to the mains, it shows its charging status and turns off automatically after 5 seconds
- 2) When the power cord is removed (in battery mode) the remaining battery level is displayed

7 Wi-Fi status indicator

- 1) When the device is not connected to WiFi, flashes the WiFi icon
- 2) When the device is connected to WiFi, it will Wi-Fi icon off

8. LED Status

- 1) When the screen is on, the LED status will be turned off automatically
- 2) if the screen is off (full screen in OFF mode) in the mobile app, the status LED will blink

9. Brightness

- 1) The screen brightness is automatically adjusted via the illuminance sensor
- 2) The screen brightness can be set in the mobile app to "Dark / Middle / Bright / Auto" The initial setting is "Bright"

10. Data Storage

- 1) If the WiFi connection is lost, the measured data will be stored in the device. Up to 90 days of data can be stored.
- 2) When Wi-Fi is connected, the measured data will be sent to the server automatically every 5 minutes.
- 3) If the WiFi connection is lost, the data saved on the instrument will be sent to the server automatically when the WiFi connection is re-established

Specifications

Product type	Indoor Air Quality Monitor
Model #	Huma-i smart HI-300
Measuring range	CO ₂ : 400 - 5.000 ppm
	VOC: 0.000 - 9.999µg/m ³
	PM1.0/PM2.5/PM10 : 0-999µg/m ³
	Temperature : -30 -100°C
	Humidity : 0 - 99 % RH
Clock	AM / PM
Screen Display	Custom display
Wi-Fi	2.4 Ghz only 802. 11 b/g/n
App	Supports Android and IOS
Power Supply Adaptor	Input : AC 100/240v, 50/60Hz USB C Output: 5V/1A external Power Supply Adaptor
Battery	Li-Polymeer @ 650mAh/3.7V
Operating temperature	-10°C - 60°C
Storage Temperature	-25°C- 60°C
Dimentions	136 x 82 x 40 mm
Nett weight	171 gr
Certificates	CE,FCC, KC

Huma-i smart self-calibration function



The Huma-i HI-300 has a self-calibration function for CO2 and VOC measurements, to ensure correct measurement. Please take into account the following points in order to get an optimal to ensure self-calibration

1. It is recommended to always use the supplied power cable
2. When using the device for the first time, please expose to clean air for 15 minutes, if necessary 1 to 3 times in a 24 hour period.
3. Always ensure that the battery is sufficiently charged when performing calibration with the supplied power supply cable is not possible.
4. The more often the device is exposed to clean air, the better the measurement will be performed turn into.

Disclaimer

- 1 This device can be used to measure air quality portable. The OLED display has a good brightness, but can show traces of burn-in after continuous use. It is recommended not to leave the device on continuously unless absolutely necessary.
- 2 If necessary, do not expose the device to direct sunlight or excessive humidity for a long period of time.
- 3 Do not expose the device to a very dusty environment for a long period of time.
- 4 Do not disassemble the device.
- 5 Do not allow water or liquids to enter the device. This may result in a malfunction.
- 6 The device may display erroneous readings depending on the environment, misuse, wind or external factors
- 7 The measured values are purely indicative and for personal use. The manufacturer or seller assumes no responsibility for the correctness of the measured values.

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